

Information about VVR Pure and clean drying agent B6A1D(Economical/Anti-hard water/Acid)

得廣鉅 B6A1D 經濟型抗硬水酸性催乾劑安全資料表

VVR CO., LTD.

DESCRIPTION 簡述

自動洗碗機專用高溫催乾劑(乾精)。Designed for Automatic dishwasher.

工作溫度約在 80~85°C，能在 15~45 秒內快速催乾碗盤。The working temperature is about 80~85°C. It can quickly dry the dishes in 15~45 seconds.

無閃火點。合乎工安要求。No flash point. Compliance with safety requirements.

合乎衛福部公告之食品用洗潔劑衛生標準。是專為使用於食品器具、食品容器及食品包裝而設計之催乾劑。Meet the hygiene standards of food detergents notified by the Department of Health. It is a detergent designed for use in food appliances, food containers, and food packaging.

USES 使用

將 B6A1D 催乾劑加入自動注藥系統中，依使用環境的狀況適量調整用量。Consult your Service Representative for specific directions. Use only in an approved dispenser.

SAFETY DATA SHEET

安全資料表

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING 物品與廠商資料

Trade name: VVR A4HD Automated dishwasher Detergents

Sellers: VVR Co., Ltd. 得廣鉅股份有限公司

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Producer: EverDependUp Co., Ltd. 長信昇實業股份有限公司

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2. HAZARDS IDENTIFICATION 危害辨識資料

GHS 標籤類別

標誌的符號: 無

危險聲明:

- 不可當作一般洗碗精使用。切勿接觸人體眼睛。接觸肌膚請以清水清洗乾淨。

3. COMPOSITION/INFORMATION ON INGREDIENTS

成份辨識資料

Substance name	CAS No.	Amount (%W/W)
Sodium lauroyl sarcosinate, 月桂醯肌氨酸鈉	137-16-6	0.1~4.9%
Citric Acid 檸檬酸	77-92-9	1~11%
Polyethylene glycol, 聚乙二醇	25322-68-3	1~11%
Brilliant blue FCF, 食用色素	4712-70-3	0.001~0.1%
Isopropyl alcohol 異丙醇	67-63-0	0.1~10%
5-Chloro-2-methyl-4-isothiazolin-3-one防腐劑(5-氯-2-甲基異噻唑啉-3-酮)	26172-55-4	<0.001%
Water 水	7732-18-5	Balance to 100%

3. HAZARDS IDENTIFICATION 危害辨識資料

- **Prolonged contact may lead to irritation.** 長時間接觸有可能導致過敏

4. FIRST AID MEASURES 急救措施

4.1 Eye contact: 眼睛接觸

- **Rinse immediately with plenty of water for 15 minutes**
立刻以大量清水緩和沖洗受污染部位**15** 分鐘。
- **If irritation persists consult a doctor/medical service**
任何不適現象持續時請就醫

4.2 Skin contact: 肌膚接觸

- **Wash immediately with lots of water and soap for 15 minutes**
立刻以大量清水緩和沖洗受污染部位**15** 分鐘。
- **Remove clothing while washing**
沖洗中脫去衣物
- **Do not remove clothing if it sticks to the skin**
如果衣服黏附肌膚就不要強行脫去衣物
- **If irritation persists consult a doctor/medical service**
任何不適現象持續時請就醫

4.3 After inhalation: 吸入後處理

- **Remove the victim into fresh air** 移至空曠處呼吸新鮮空氣
- **Unconscious: maintain adequate airway and respiration**
昏迷狀態：請維持適當呼吸
- **If breathing problems develop: consult a doctor/medical service**
發生呼吸困難：請維持適當呼吸並迅速就醫

4.4 After ingestion: 食用處裡

- **Immediately after ingestion: give lots of water to drink**
立即飲用大量清水
- **Never give water to an unconscious person**
不可讓昏迷的人喝水
- **Allow vomiting** 允許催吐 但避免噎到
- **If you feel unwell: consult a doctor/medical service**
任何不適現象持續時請就醫

5. FIRE FIGHTING MEASURES 滅火措施

5.1 Suitable extinguishing media:

- **Water spray**
- **Polyvalent foam**
- **Alcohol foam**
- **BC powder**
- **Carbon dioxide**

適用滅火劑：噴水、化學乾粉、酒精泡沫、聚合泡沫、二氧化碳。

5.2 Special protective equipment for firefighters: 特殊防護裝備

- **Heat/fire exposure: compressed air/oxygen apparatus of gas-tight suit**
壓縮空氣及氧氣供應設備

6. ACCIDENTAL RELEASE MEASURES 洩漏處理方法

Personal Protection 人員防護

Respiratory: Gauze mask. 口罩

Eye: Approved safety glasses with side shield. 安全眼鏡

Clothes: Protective work clothes. 工作服

Additional Comments: Eye washes and safety showers should be available. 洗眼設備及安全淋浴設備

Educate and train employees in the use of this product, besides also follow all label instructions. 依照指示教育操作人員

Environmental Precaution 環境保護預防

Should not be allowed to enter drain or watercourses.

不要讓洩漏物流入下水道

Methods for cleaning up 清潔方法

Contain spill with inert material. Absorb in vermiculite, dry sand or earth. Place in the container for disposal according to local regulation.

1.不要碰觸外洩物。2.避免外洩物進入下水道、水溝或密閉的空間內。3.在安全許可狀況下設法阻止或減少溢漏。4.用砂、泥土或其他不與洩漏物質反應之吸收物質來圍堵洩漏物。5.利用幫浦或真空設備吸除液體後，置於加蓋容器內。6.少量洩漏：用不會和外洩物反應之吸收物質吸收。以污染的吸收物質和外洩物具有同樣的危害性，須置於加蓋並標示的適當容器裡，用水沖洗溢漏區域。小量的溢漏可用大量的水稀釋。7.大量洩漏：聯絡消防，緊急處理單位及供應商以尋求協助。8.用過之吸收劑已含污染物，可能具同等危害。

7. HANDLING AND STORAGE 安全處置與儲存方法

Handling

Mechanical ventilation or local exhaust ventilation is required. Avoid all unnecessary.

Storage Conditions

Keep contains tightly closed. Keep away from heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

暴露預防措施

Exposure Limit Comments 暴露界限

None established.無資料

Engineering controls 工程控制：

Mechanical ventilation or local exhaust ventilation is required.

1. 單獨使用抗腐蝕的排風系統。2. 排氣口直接通到室外。3. 供給充分新鮮空氣以補充排氣系統抽出的空氣。

Hand 雙手防護

Use protective gloves made of Butyl rubber. Wear tightly fitting safety goggles and full-face visor or shield. 使用橡膠手套

Skin and body 肌膚防護

Use suitable protective clothing as protection against splashing or contamination.

Launder cloths before re-use. 穿工作服

9. PHYSICAL AND CHEMICAL PROPERTIES 物理及化學性質

Appearance 外觀

Blue liquid

Odor 味道

mild.

Non-Flammable 可燃的(aqueous solution)

Specific Gravity 比重(H₂O is: 1): 1.000~1.012

pH value 酸鹼值(1%): 3.2±0.5

Flash point 閃火點: ND.(closed/open cup)

Boiling point 沸點: >100 °C

Ignite Temp.: ND.

Solubility 溶解性：與水互溶 Miscible with water

Vapor pressure 蒸氣壓: N.A.

Evaporation Rate 揮發速率(BuAc = 1.0): N.A.

10. STABILITY AND REACTIVITY 安定性及反應性

Thermal decomposition 熱分解

No thermal decomposition when stored and handled correctly. 在適當的操作及儲存條件下不會熱分解

11. TOXICOLOGICAL INFORMATION 毒性資料

Acute toxicity: LD50 > 5000 mg / kg (rat ingestion)

Inhalation: May cause damage to lungs.

Skin contact: slight skin irritation.

Eye contact: Slight eye irritation, but does not cause permanent damage.

Urgency and Chronic Toxicity: This material is less toxic and causes only mild irritation to the human body.

No reports of exposure have so far been reported. No reports so far indicate carcinogenicity to humans or experimental animals.

Irritation: May cause slight irritation to the skin and eyes.

Sensitization:

Mutagenicity:

Teratogenicity:

Carcinogenicity: No information available at this moment shows carcinogenicity.

Other:

急性毒性： **LD50 >5000 mg/kg** (大鼠吞食)

吸入：可能對肺部會造成傷害。

皮膚接觸：產生輕微皮膚刺激。

眼睛接觸：產生輕微眼睛刺激，但不會造成永久性傷害。

緊急性和慢性毒性：此物質毒性低，對人體僅會產生輕微刺激。

目前為止並無曝露危害的報告。

截至目前為止並無報告顯示會對人類或實驗性動物產生致癌性。

刺激性：對皮膚及眼睛會造成輕微刺激。

致敏性：

致突變性：

致畸性：

致癌性：目前沒有資料顯示有致癌性。

其他：

12. ECOLOGICAL INFORMATION 生態資料

Environmental Fate:

When released into the soil, this material is not expected to evaporate significantly. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material is not expected to evaporate significantly. When released into water, this material may biodegrade to a moderate extent. This material has an estimated bioconcentration factor (BCF) of less than 100. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day. 本產品釋放到水中及土壤，不會長時間堆積，會以穩定的速度分解。本產品不會生物堆積，不會長時間累積在生物體中。本產品釋放到空氣中，會因光照作用快速分解，其半衰期少於1天。

The biological decomposition degree of the product, by reference to the nature of raw materials, it is estimated that the biological decomposition degree > 90%. 本產品的生物分解度，經參考原料性質，估計生物分解度 > 90%。

Environmental Toxicity:

The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life. 本產品釋放到水中，其96小時對於魚的LC50急毒性，大於100 mg/L。本產品對於水中生物目前未發現毒性。

13. DISPOSAL CONSIDERATIONS 廢棄處置方法**Disposal methods**

Dispose in safe map in accordance with local/national regulations. Completely empty contents of drums before discarding. 空桶廢棄前請確認內容物完全清空。依照當地法令廢棄於安全的地點。

Waste category

Disposal of in accordance with local authority requirements. 依照當地法令廢棄。

14. TRANSPORT INFORMATION 運送資料

Transportation regulation varies by local. 依據當地法令運送。

聯合國編號：非規定品項

聯合國運輸名稱：-

運輸回害分類：-

包裝類別：-

海洋污染物：-

特殊規定：-

Dangerous Goods Code:

UN Number: Not regulated

Packing flag: Not specified

Packing Group:

Packing method:

Transportation Note:

15. REGULATION INFORMATION 法規資料

Labor Safety and Health Rules

Dangerous and Harmful Material of general rules

Labor operating environment allowable concentration of harmful substances in the air standard

Road traffic safety rules

Industrial Waste Storage and Disposal and Facility Standards

Public dangerous goods and flammable pressurized gases Establishment Standards and Safety

Management Measures

International regulations

職業安全衛生設施規則

危害性化學品標示及通識規則

勞工作業場所容許暴露標準

道路交通安全規則

事業廢棄物貯存清除處理及設施標準

公共危險物品及可燃性高壓氣體設置標準暨安全管理辦法

國際法規

16. OTHER INFORMATION 其他

References: Labor Safety and Health Council of Labor Affairs Department hazardous materials and hazardous material labeling and Liberal rule

Safety and Health Technology Center Taiwan 2008 GHS Implementation Update

EPA toxic chemicals labeling and material safety data sheet management approach

Watchmaking unit: a long letter Sheng Industrial Co., Ltd. R & D

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參考文獻：行政院勞動部 職業安全衛生署 危害性化學品標示及通識規則

職業安全衛生研究所 Taiwan 2008 GHS Implementation Update

環保署 毒性化學物質標示及安全資料表管理辦法

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